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Issues:

Class Cost-of-Service

Rate Design

Witness:

Michael S. Scheperle

Sponsoring Party:

MO PSC Staff
Direct Testimony

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ER-2011-0028

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February 10, 2011

## MISSOURI PUBLIC SERVICE COMMISSION

#### UTILITY OPERATIONS DIVISION

**DIRECT TESTIMONY** 

**OF** 

MICHAEL S. SCHEPERLE

UNION ELECTRIC COMPANY d/b/a AMEREN MISSOURI

FILE NO. ER-2011-0028

Jefferson City, Missouri February 2011

Staff Exhibit No. 226

Date 4/26/11 Reporter \$18

File No. E2-2011-0028

### BEFORE THE PUBLIC SERVICE COMMISSION

## OF THE STATE OF MISSOURI

In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariff to Increase Its Annual Revenues for Electri Service	0 ) File No. ER 2011-0028			
AFFIDAVIT OF MICHAEL S. SCHEPERLE				
STATE OF MISSOURI ) ss COUNTY OF COLE )				
Michael S. Scheperle, of lawful age, on his oath states: that he has participated in the preparation of the following Direct Testimony in question and answer form, consisting of				
	Michael 5. Schepelle Michael S. Scheperle			
Subscribed and sworn to before me this	day of February, 2011.			
SUSAN L. SUNDERMEYER Notary Public - Notary Seal State of Missouri Commissioned for Callaway County My Commission Expires: October 03, 2014 Commission Number: 10942086	Susan Mundermeyer Notary Public			

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#### 1 **DIRECT TESTIMONY** 2 **OF** 3 MICHAEL S. SCHEPERLE 4 UNION ELECTRIC COMPANY d/b/a AMEREN MISSOURI 5 FILE NO. ER-2011-0028 Q. 6 Please state your name and business address. 7 A. My name is Michael S. Scheperle and my business address is Missouri Public 8 Service Commission, P. O. Box 360, Jefferson City, Missouri 65102. 9 Who is your employer and what is your present position? O. I am employed by the Missouri Public Service Commission (Commission) and 10 A. 11 my title is Manager, Economic Analysis Section, Energy Department, Utility Operations 12 Division. 13 What is your educational background and work experience? O. 14 A. I completed a Bachelor of Science degree in Mathematics at Lincoln 15 University in Jefferson City, Missouri. I have been employed by the Missouri Public Service 16 Commission since June 2000. Prior to joining the Commission, I was employed at United 17 Water Company as a Commercial Manager from 1983 to 2000, and at Missouri Power & 18 Light Company from 1973 to 1983 as a Supervisor of Rates, Regulations and Budgeting. A 19 list of the cases in which I have filed testimony before the Commission is shown on Schedule 20 1. I moved to the Economic Analysis section as a Regulatory Economist III in 2008 and began 21 conducting Class Cost-of-Service (CCOS) studies. I assumed my current position in 2009. 22 **EXECUTIVE SUMMARY** 23 Q. What is the purpose of your direct testimony?

#### Direct Testimony of Michael S. Scheperle

1	A. The purpose of this testimony is to sponsor the Staff's recommendation in its
2	Rate Design and Class Cost-of-Service Report (CCOS Report) that is being filed concurrently
3	with this direct testimony. I also provide in this direct testimony an overview of Staff's
4	recommendations detailed in its CCOS Report. The CCOS Report presents Staff's updated
5	CCOS study for Union Electric Company d/b/a Ameren Missouri (Ameren Missouri) and
6	provides methods to collect a Commission ordered overall increase in Ameren Missouri's
7	overall revenue requirement. Also, the CCOS Report makes a recommendation to require
8	Ameren Missouri to combine its tariffs under one number; recommends changes to the Fuel
9	and Purchase Power Adjustment Clause (FAC); and street and area lighting
10	recommendations.
11	Q. What are Staff's rate design recommendations to the Commission for Amerer
12	Missouri in this case?

- A. As explained in its CCOS Report, Staff recommends that the Commission order Ameren Missouri that:
  - 1. The following Ameren Missouri customer classes receive the system average increase, as the revenue responsibilities of these customer classes are close to Ameren Missouri's cost to serve them:
    - Small General Service (SGS)
    - Large Transmission Service (LTS)
  - 2. The Ameren Missouri Residential and Lighting customer classes receive the system average percent increase plus an approximate additional 1% increase, because the current revenue responsibilities of the customer classes are less than Ameren Missouri's cost to serve them.
  - 3. The following Ameren Missouri customer classes receive no increase for the first \$30 million, because their current revenue responsibilities exceed Ameren Missouri's cost of serving them. For any Commission ordered increase above \$30 million, that the

additional amount above \$30 million be allocated on an equal percentage basis to the following Ameren Missouri customer classes:

- Large General Service (LGS)/Small Primary Service (SPS)
- Large Primary Service (LPS)
- 4. Ameren Missouri maintain non-residential rate schedule interrelationship uniformity for customer charges, Rider B voltage credits, Reactive charges, and Time-of-Day customer charges.
- 5. The residential customer charge be increased to \$9.00.
- 6. Combine Ameren Missouri tariffs under one P.S.C. Mo. Schedule number, resolve inconsistencies between the list of communities and counties served by Ameren Missouri in its minimum filing requirements and its tariff, make clarification and typography correction in specific tariff sheets, and remove obsolete energy efficiency program tariff sheets.
- 7. Implement FAC revisions.
- 8. Ameren Missouri shall complete it evaluation of Light Emitting Diode (LED) Street and Area Lighting (SAL) systems and file a proposed LED lighting rate schedule(s) no later than twelve (12) months following its Report and Order approving tariff sheets in this case or an update to the Commission on when it will file a proposed LED lighting rate schedule(s).

#### STAFF RATE DESIGN AND CCOS REPORT

- Q. How is the Staff's CCOS Report organized?
- A. The Report is organized by topic as follows:
  - I. Executive Summary
  - II. Class Cost-of-Service and Rate Design Overview
  - III. Class Cost-of-Service Study
  - IV. Rate Design
  - V. Recommendation to Require Ameren Missouri to Combine its Tariffs

    Under One Number

- VI. Fuel and Purchase Power Adjustment Clause
- VII. Street and Area Lighting Recommendation
- Q. Which members of Staff are responsible for the Staff's CCOS Report?
- A. I am responsible for the CCOS and Rate Design Overview and Staff CCOS sections. William (Mack) L. McDuffey is responsible for Ameren Missouri to combine its tariffs under one number. David Roos is responsible for the recommended FAC tariff revisions. Hojong Kang is responsible for the SAL recommendation.
- Q. What relationship, if any, is there between the Staff's Revenue Requirement Cost of Service (COS) Report filed February 8, 2011, and the Staff's CCOS Report?
- A. In its COS Report Staff filed its accounting information, which included Staff's estimate of Ameren Missouri's revenue requirement through the true-up cut-off date of February 28, 2011. Consistent with that COS Report, this CCOS Report reflects the Staff's revenue requirement recommendation of \$72,003,700 (mid-point) based on Staff's estimate through the true-up cut-off date of February 28, 2011.

#### **CLASS COST-OF-SERVICE STUDY**

- Q. How did Staff reach its CCOS recommendations to the Commission?
- A. Staff's Accounting Schedules filed with Staff's COS Report show an increase in Ameren Missouri's revenue requirement in the range of \$44,789,202 to \$99,306,105 is warranted. In its COS Report, Staff's mid-point of its return on equity range calculated Ameren Missouri's revenue requirement to be \$72,003,700, an overall increase of 2.96%.

Staff used Ameren Missouri's rate schedules for the customer classes in its CCOS study. Staff combined the LGS and SPS rate classes for purposes of its CCOS study since both rate schedules serve non-residential customers with billing demands of at least 100

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revenue responsibility than Ameren's cost (investment and expenses) to serve them and four of the rate customer classes having less revenue responsibility than Ameren's costs to serve them. For Staffs' CCOS study results, a positive percentage indicates revenue responsibility of that customer class is less than Ameren Missouri's cost to serve that class, i.e., the class has underpaid. In contrast, a negative percentage indicates revenue responsibility of the customer class exceeds Ameren Missouri's cost to serve to that class, i.e., the class has overpaid.

Q. How did Staff conduct its CCOS study?

A. The CCOS Report outlines how Staff performed its CCOS study. In its CCOS study Staff used the Base, Intermediate, and Peaking (BIP) method for allocating production investment and costs to the customer classes. Staff used the 12 coincident (12 CP) method to

kilowatts (kW), a customer may choose to take service at secondary voltage level under the

LGS 3(M) rate schedule or at a primary voltage level under the SPS 4(M) rate schedule. The

rate structures are identical, except that the rate levels on the SPS rate schedule have been

adjusted for the loss differential between primary and secondary voltages and to account for

customer provision of voltage transformation equipment. For its lighting class Staff combined

Ameren Missouri's lighting rate schedules. This resulted in six customer classes. For each of

these six customer classes Staff determined (1) Ameren Missouri's investment to serve the

customers in that customer class and; (2) Ameren Missouri's ongoing expenses to serve the

customers in that customer class. Staff's CCOS study revealed that, on a revenue neutral

basis, Ameren Missouri's current rates result in two of the customer classes having more

allocate transmission investment and costs to the customer classes. Staff used a combination

of non-coincident peak (NCP) demands, individual customer maximum demands, and

company specific studies to allocate distribution investment and costs to customer classes.

Customer costs are allocated to customer classes based on the numbers of customers, company studies, and other internal allocators. Staff's CCOS study summary attached to its CCOS Report (Schedule MSS-1) is based on Staff's midpoint return on equity (ROE) recommendation revenue requirement for Ameren Missouri's jurisdictional retail operations of \$72,003,700 and an overall increase of 2.96%.

#### RATE DESIGN AND OTHER RECOMMENDATIONS

- Q. What are Staff's Rate Design and other recommendations detailed in its CCOS Report?
- A. Staff recommends that the Commission order Ameren Missouri to implement any Commission ordered increase as follows:
  - 1. The following Ameren Missouri customer classes receive the system average increase, as the revenue responsibilities of these customer classes are close to Ameren Missouri's cost to serve them:
    - Small General Service
    - Large Transmission Service
  - 2. The Ameren Missouri Residential and Lighting customer classes receive the system average percent increase plus an approximate additional 1% increase, because the current revenue responsibilities of the customer classes are less than Ameren Missouri's cost to serve them.
  - 3. The following Ameren Missouri customer classes receive no increase for the first \$30 million, because their current revenue responsibilities exceed Ameren Missouri's cost of serving them. For any Commission ordered increase above \$30 million, that the additional amount above \$30 million be allocated on an equal percentage basis to the following Ameren Missouri customer classes:
    - Large General Service/Small Primary Service
    - Large Primary Service

# Direct Testimony of Michael S. Scheperle

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- 4. Ameren Missouri maintain non-residential rate schedule interrelationship uniformity for customer charges, Rider B voltage credits, reactive charges, and Time-of-Day customer charges.
- 5. The Residential customer charge be increased to \$9.00.
- 6. Recommendation to require Ameren Missouri to combine its tariffs under one number and other miscellaneous changes.
- 7. Ameren Missouri implement FAC revisions as detailed in Staff's Rate Design and CCOS Report.
- 8. Complete its evaluation of LED SAL systems and file a proposed LED lighting rate schedule(s).
  - Q. Does this conclude your direct testimony?
  - A. Yes, it does.

#### Michael S. Scheperle

# Testimony/Reports Filed Before The Missouri Public Service Commission:

#### **CASE NOS:**

TO-98-329, In the Matter of an Investigation into Various Issues Related to the Missouri Universal Service Fund

TT-2000-527/513, Application of Allegiance Telecom of Missouri, Inc. ... for an Order Requiring Southwestern Bell Telephone Company to File a Collocation Tariff; Joint Petition of Birch Telecom of Missouri, Inc. for a Generic Proceeding to Establish a Southwestern Bell Telephone Company Collocation Tariff before the Missouri Public Service Commission

TT-2001-139, In the Matter of Mark Twain Rural Telephone Company's Proposed Tariff to Introduce its Wireless Termination Service

TT-2001-298, In the Matter of Southwestern Bell Telephone Company's Proposed Tariff PSC Mo. No. 42 Local Access Service Tariff, Regarding Physical and Virtual Collocation

TT-2001-440, In the Matter of the determination of Prices, Terms, and Conditions of Line-Splitting and Line-Sharing

TO-2001-455, In the Matter of the Application of AT&T Communications of the Southwest, Inc., TCG St. Louis, Inc., and TCG Kansas City, Inc., for Compulsory Arbitration of Unresolved Issues with Southwestern Bell Telephone Company Pursuant to Section 252(b) of the Telecommunications Act of 1996

TC-2002-57, In the Matter Of Northeast Missouri Rural Telephone Company's And Modern Telecommunications Company's Complaint Against Southwestern Bell Telephone Company Regarding Uncompensated Traffic Delivered by Southwestern Bell Telephone Company To Northeast Missouri Rural Telephone And Modern Telecommunications Company.

TC-2002-190, In the Matter Of Mid-Missouri Telephone Company vs. Southwestern Bell Telephone Company

TC-2002-1077, BPS Telephone Company, et al., vs. Voicestream Wireless Corporation, Western Wireless Corp., and Southwestern Bell Telephone Company

TO-2005-0144, In the Matter of a Request for the Modification of the Kansas City Metropolitan Calling Area Plan to Make the Greenwood Exchange Part of the Mandatory MCA Tier 2 TO-2006-0360, In the Matter of the Application of NuVox Communications of Missouri, Inc. for an Investigation into the Wire Centers that AT&T Missouri Asserts are Non-Impaired Under the TRRO

IO-2007-0439, In the Matter of Spectra Communications Group, LLC d/b/a CenturyTel's Request for Competitive Classification Pursuant to section 392.245.5 RSMo

10-2007-0440, In the Matter of CenturyTel of Missouri, LLC's Request for Competitive Classification Pursuant to Section 392.245.5 RSMo

TO-2009-0042, In the Matter of the Review of the Deaf Relay Service and Equipment Distribution Fund Surcharge

ER-2009-0090, In the Matter of the Application of KCP&L Greater Missouri Operations Company for Approval to Make Certain Changes in its Charges for Electric Service

ER-2009-0089, In the Matter of the Application of Kansas City Power and Light Company for Approval to Make Certain Changes in its Charges for Electric Service To Continue the Implementation of Its Regulatory Plan

ER-2010-0036, In the Matter of Union Electric Company, d/b/a AmerenUE's Tariffs to Increase its Annual Revenues for Electric Service

ER-2010-0130, In the Matter of The Empire District Electric Company of Joplin, Missouri for Authority to File Tariffs Increasing Rates for Electric Service Provided to Customers in the Missouri Service Area of the Company

ER-2010-0355, In the Matter of the Application of Kansas City Power & Light Company for Approval to Make Certain Changes in its Charges for Electric service to Continue the Implementation of Its Regulatory Plan

ER-2010-0356, In the Matter of the Application of KCP&L Greater Missouri Operations Company for Approval to Make Certain Changes in its Charges for Electric Service